

Ali Baluee Jamkhaneh

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Education

- **Master of science** in Forest sciences and engineering: forest ecology
Sari Agricultural Sciences and Natural Resources University, Mazandaran, Iran
September 2020 - January 2023
Thesis: Effect of plant communities and altitude variations on soil Carbon and Nitrogen stock
Supervisor: [Prof. Dr. S. M. Hojjati](#)
Thesis Grade: Excellent (20/20) and (4/4)
GPA: (17.68/20) and (3.7/4)
- **Summer School** in Torpical Forest Biodiversity and Ecosystem Services
Bandung Institute of Technology, Indonesia.
August 2022
Grade: A and (4/4)
- **Bachelor of science** in F orestry
Sari Agricultural Sciences and Natural Resources University, Mazandaran, Iran
September 2016 - September 2020
GPA: (18.44/20) and (3.8/4)

Research Interests

- Soil carbon and nitrogen cycling
- Silvicultural and forest ecology
- Implementation of GIS and remote sensing in forest sciences
- Nutritional status of forest ecosystem
- Usage of forest and soil science in climate change adaptation
- Forest and soil biodiversity
- Geostatistics

Publication

- Hojjati, S. M., Tafazoli, M., Asadian, M., **Baluee, A.**, Soil respiration and carbon stock response to land use change in the temperate forest of northern Iran, Environmental Earth Sciences 82, 413 (2023).
<https://doi.org/10.1007/s12665-023-11112-w>
- **Baluee, A.**, Hojjati, S. M., Asadi, H., Asadian, M., Effect of plant communities of the Darabkola research and educational forest on carbon stored in soil and above ground biomass, Forest Research and Development (2023). (My thesis).
- Hojjati, S. M., Tafazoli, M., Asadian, M., **Baluee, A.**, Estimation of carbon sequestration and forest soil respiration using machine learning models in eastern forest of Mazanadaran province, Forest Research and Development 8, 371-388 (2022).

Conference (Oral present)

- **Baluee, A.**, Hojjati, S. M., Asadi, H., Asadian, M., Variation of soil carbon and nitrogen stock along elevational gradient in Darabkola forest, 11th International Conference on Agricultural Sciences, Environment, Urban and Rural Development, 2022. (My thesis)
- Hojjati, S. M., **Baluee, A.**, Asadian, M., Effect of forest plantation with Poplar and Maple on soil CO₂ emission. 9th International Conference on Agricultural Sciences, Environment, Urban and Rural Development, 2022.
- **Baluee, A.**, Jalilvand, H., The effect of climate change on forests and species extinction. 5th International Conference on New Research in Agricultural, Environment and Natural Resources Engineering, 2021.
- **Baluee, A.**, Nasiri, M., Investigation of root tensile strength (TS) of Alder trees (*Alnus glutinosa*) on the cut-slope of forest roads. 2nd International Conference on Agricultural Engineering, Natural Resources and Environment, 2020.

Technical Skill

- **Programming language (R):** Statistical inference, data analysis, modeling, linear models, matrix algebra
- **Software:** R Studio, GIS, GS+, SPSS, Photoshop, Past, PC-ORD, Visual Studio
- **Geostatistical soil mapping:** Produce soil physical, chemical, and biological maps using GS+

Teaching Experience

- **Forest Survey:** Taught practical survey to four different groups of four bachelor students, exam paper correction, applied survey examiner.
Four semesters
Reference: [Dr. Mehran Nasiri](#) (he/him)

Work Experience

- Oct 2017 - Jul 2023, Laboratory member (Part time), Water, Soil and Plant lab, Sari Agricultural Sciences and Natural Resources University, Doing different experiments, working with different chemicals, responsible for the accuracy of the reported data, taking note of the needed supplies, teaching new members.
- Feb 2021 - Present, International Forestry Students' Association (IFSA) (Part time), served as president of IFSA LC Sanru, Asia-pacific regional representative, and cultural competencies commissioner, developing many soft skills.

Society and Committee Membership

- Member of Agricultural and Natural Resources Engineering Organization of IRAN
- Member of International Forestry Students' Association (IFSA)
- International Student Identity Card
- Iran's National Elites Foundation

Certification

- Data Analysis for Life Sciences, HarvardX. 2022
- Tropical Forest Biodiversity and Ecosystem Services, Bandung Institute of Technology. 2022
- Inspiring and Motivating Individuals, University of Michigan. 2022
- Medical Emergency Training, Iran Nursing Association. 2021

[Others](#)

Honors and Awards

- Ranked 5th among approximately 1000 participants in the master university entrance exam
- Scholarship (Bachelor and master)
- Top bachelor student of the faculty of natural resources during four years in Dec 2019

Languages

- **Persian:** Native language
- **English:** IELTS Academic 7.5 (L: 7.5, R: 8.5, S: 7.5, W: 6)
- **Spanish:** Basic knowledge

References

- **Prof. Dr. S. M. Hojjati**
Professor, Department of Forestry, Sari Agricultural Sciences and Natural Resources University, Mazandaran, Iran.
Email: s_m_hodjati@yahoo.com
- **Dr. Hamed Asadi**
Assistant Professor, Department of Forestry, Sari Agricultural Sciences and Natural Resources University, Mazandaran, Iran.
Email: asadi.hamed@yahoo.com
- **Juliet Achieng**
Junior Researcher, European Forest Institute, Bonn, Germany.
Email: juliet.achieng@efi.net